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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/805,902	-	03/22/2004	Wen Liang Gao	Wen Liang Gao 871-011491-US (PAR) 1913		
2512	7590	03/08/2006	03/08/2006 EXAMINER			INER
PERMAN & GREEN			ALLAWI, ALI			
425 POST ROAD FAIRFIELD, CT 06824			ART UNIT	PAPER NUMBER		
			2877			
				DATE MAILED: 03/08/2000	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Examiner			Application No.	Applicant(s)			
ALIALLAWI  - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE			10/805,902	GAO, WEN LIANG			
Preiod for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3_MONTH(S) OR THIRTY (30) DAY WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Extensions of mem myb available under the provides of 37 CFR 1.79(a). In oe went, however, may a reply be limitely filed after 93x (b) MONTHS from the mailing date of this communication.  Extensions of mem myb available under the provides of 37 CFR 1.79(a).  Extensions of the mailing date of this communication.  Failune to require while the set or extended period for review 40, why by statute, cause the application to become ABANDANDE (38 U.S.C. § 133).  Any reply received by the Office later than three morths after the mailing date of this communication, even if timely filed, may reduce any some dipartite than adjustment. See 37 CFR 1.79(a).  Status  1) □ Responsive to communication(s) filed on 22 March 2004.  2a) □ This action is FINAL.  2b) □ This action is FINAL.  2b) □ This action is formation at the mailing date of this communication, even if timely filed, may reduce any some dipartite than adjustment to the communication is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 1-13 Is/are rejected.  5) □ Claim(s) 1-13 Is/are rejected.  7) □ Claim(s) 1-13 Is/are rejected.  7) □ Claim(s) 1-13 Is/are rejected.  8) □ Claim(s) 1-13 Is/are rejected to by the Examiner.  10) □ The specification is objected to by the Examiner.  10) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority		Office Action Summary	Examiner	Art Unit			
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3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) Notice of Informal Patent Application (PTO-152)	1) Notic 2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te			

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roy et al. (6,118,540) in view of Carmeli et al. (6,414,708).

In regards to claims 1, 7, and 13 Roy et al. discloses a method and apparatus for inspection comprising a source for emitting a light beam and a sensor for capturing images of a target area, and an optical system creating a plurality of paths for illuminating the target area, the optical system arranged such that a 2D image and a 3D image of the target area appear in a same focal plane for capture by the sensor and have the same optical path length from the target area to the sensor. (Abstract, Fig. 1 and 2, Col. 4: 24-67)

Roy et al. does not disclose a splitting method of a single light beam into a plurality of paths for illuminating the target, instead, Roy et al. discloses an apparatus in which multiple laser light sources with similar optical characteristics can be utilized to create multiple paths and directions on which to illuminate a target.

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Carmeli et al. however discloses a method and apparatus for inspection of a target that utilizes a beam splitter within an optical system for splitting the light beam into a plurality of paths for illuminating the target. (Fig. 1, 4-11, Col. 6: 28-43)

It would have been obvious to a person of ordinary skill in the art at the time of the invention to substitute the multiplicity of laser sources with a beam splitter for multipath directions of one source to allow for more compact design and uniformity in the signal.

In regards to claims 2-4 and 8-10, Roy et al. further discloses an inspection system wherein the source is a laser line generator, the sensor is an addressable camera, and the target area is a point. (Fig. 2, 8-9)

In regards to claims 5-6 and 11-12, Carmeli et al. further discloses an optical inspection system comprising first and second mirrors wherein the light beam impinges on the mirrors and is reflected onto the target from the first mirror in one direction and from the second mirror in another direction. Carmeli et al. further discloses the mirrors to be adjustable horizontally, vertically, and angularly. (Fig. 4-11)

### Additional Prior Art

The prior art made of record and not relied upon is considered pertinent to the applicant's disclosure. The references listed in the attached form PTO-892 teach of other prior art that may anticipate or obviate the claims of the applicant's invention.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ali Allawi whose telephone number is **571 272 8285**. The examiner can normally be reached on Monday through Friday, 8am to 4pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr. can be reached on **571 272 2800 ext. 77**. The fax phone number for the organization where this application or proceeding is assigned is **571 273 8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HWA (ANDREW) LEE PRIMARY EXAMINER

Gregory J. Toatley, Jr.

SPE

Art Unit 2877

ÁA 01/03/2006